

U. S. ARMY ENGINEER
GEODESY, INTELLIGENCE AND MAPPING RESEARCH AND DEVELOPMENT AGENCY
FORT BELVOIR, VIRGINIA

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GEOSCIENCE DATA EXTRACTION FROM RADAR IMAGERY

NASA - Defense Purchase Request No. R-47-009-004

5th Quarterly Progress Report

28 September 1965

Submitted by Bernard B. Schepps, Principal Investigator

GEOSCIENCE DATA EXTRACTION FROM RADAR IMAGERY

1. As per agreement between this office and Dr. Peter Badgley, NASA/OSSA/SM, 3 copies of the final report titled: "Geoscience Potentials of Side-Looking Radar" (produced by Raytheon/Autometric, Alexandria, Virginia, under contract No. DA-44-009-AMC-1040(X)) have been delivered to the following recipients:

Dr. Peter Badgley, NASA/OSSA/SM

Dr. R. K. Moore, CRES, University of Kansas

Mr. D. Hovsepian, ENGTE-M

This office will retain 3 copies, and for the time being the NASA reproducible for production of additional copies.

2. Funds for this contract were used as follows:

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| Geoscience Data Extraction from Radar Imagery | \$31,362 |
| Radar Geology Calibration Test Areas | <u>11,000</u> |
| Contract Total | \$42,362 |

3. The final report was designed and compiled as a medium for consolidating and disseminating knowledge of radar systems, imagery interpretation, and evaluations of side-looking radar geoscience potentials. Considerable effort was expended to insure the report contained high quality examples of radar imagery in an unclassified form to incite interest and function as an educational tool. Such a tool is required at this stage of development. In fact, as such, the report is a major contribution to the scientific and scholastic community and therefore should have a distribution commensurate with the job that must be performed.

It is here recommended that a high quality copy of this report be made available to the libraries of major universities throughout the United States and elsewhere.

4. Raytheon/Autometric is currently preparing an estimate of cost for a preferred reproducible suited for high quality, large quantity reproduction.

5. With the submission of our letter of final report to NASA/OSSA/SC, dated 27 September 1965, work under NASA-Defense Purchase Request No. R-47-009-004 is now complete.